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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q36-Q41):

NEW QUESTION # 36
A financial institution is implementing an AI-driven fraud detection system that needs to process millions of transactions daily in real-time. The system must rapidly identify suspicious activity and trigger alerts, while also continuously learning from new data to improve accuracy. Which architecture is most appropriate for this scenario?

- A. CPU-based servers with cloud storage for centralized processing
- B. Single GPU server with local SSD storage for both training and inference
- C. Hybrid setup with multi-GPU servers for training and edge devices for inference
- D. Edge-only deployment with ARM processors for both training and inference

Answer: C

Explanation:

A hybrid setup with multi-GPU servers (e.g., NVIDIA DGX) for training and edge devices (e.g., NVIDIA Jetson) for inference is most appropriate. Multi-GPU servers handle continuous training on large datasets with high compute power, while edge devices enable low-latency inference for real-time fraud detection, balancing scalability and speed. Option A (single GPU) lacks scalability. Option B (edge-only ARM) can't handle training demands. Option D (CPU-based) sacrifices GPU acceleration. NVIDIA's fraud detection architectures endorse this hybrid model.

NEW QUESTION # 37
You are deploying an AI model on a cloud-based infrastructure using NVIDIA GPUs. During the deployment, you notice that the model's inference times vary significantly across different instances, despite using the same instance type. What is the most likely cause of this inconsistency?

- A. The model architecture is not suitable for GPU acceleration
- B. Variability in the GPU load due to other tenants on the same physical hardware
- C. Network latency between cloud regions
- D. Differences in the versions of the CUDA toolkit installed on the instances

Answer: B

Explanation:
Variability in the GPU load due to other tenants on the same physical hardware is the most likely cause of inconsistent inference times in a cloud-based NVIDIA GPU deployment. In multi-tenant cloud environments (e.g., AWS, Azure with NVIDIA GPUs), instances share physical hardware, and contention for GPU resources can lead to performance variability, as noted in NVIDIA's "AI Infrastructure for Enterprise" and cloud provider documentation. This affects inference latencydespite identical instance types.
CUDA version differences (A) are unlikely with consistent instance types. Unsuitable model architecture (B) would cause consistent, not variable, slowdowns. Network latency (C) impacts data transfer, not inference on the same instance. NVIDIA's cloud deployment guidelines point to multi-tenancy as a common issue.

NEW QUESTION # 38
An organization is deploying a large-scale AI model across multiple NVIDIA GPUs in a data center. The model training requires extensive GPU-to-GPU communication to exchange gradients. Which of the following networking technologies is most appropriate for minimizing communication latency and maximizing bandwidth between GPUs?

- A. Ethernet
- B. Wi-Fi
- C. Fibre Channel
- D. InfiniBand

Answer: D

Explanation:
InfiniBand is the most appropriate networking technology for minimizing communication latencyand maximizing bandwidth between NVIDIA GPUs during large-scale AI model training. InfiniBand offers ultra- low latency and high throughput (up to 200 Gb/s or more), supporting RDMA for direct GPU-to-GPU data transfer, which is critical for exchanging gradients in distributed training.
NVIDIA's "DGX SuperPOD Reference Architecture" and "AI Infrastructure for Enterprise" documentation recommend InfiniBand for its performance in GPU clusters like DGX systems.
Ethernet (B) is slower and higher-latency, even with high-speed variants. Wi-Fi (C) is unsuitable for data center performance needs.
Fibre Channel (D) is storage-focused, not optimized for GPU communication.
InfiniBand is NVIDIA's standard for AI training networks.

NEW QUESTION # 39
You are managing an AI data center where energy consumption has become a critical concern due to rising costs and sustainability goals. The data center supports various AI workloads, including model training, inference, and data preprocessing. Which strategy would most effectively reduce energy consumption without significantly impacting performance?

- A. Implement dynamic voltage and frequency scaling (DVFS) to adjust GPU power usage based on workload demands.
- B. Reduce the clock speed of all GPUs to lower power consumption.
- C. Consolidate all AI workloads onto a single GPU to reduce overall power usage.

- D. Schedule all AI workloads during nighttime to take advantage of lower electricity rates.

Answer: A

Explanation:
Dynamic Voltage and Frequency Scaling (DVFS) allows GPUs to adjust their power usage dynamically based on workload intensity, reducing energy consumption during low-demand periods while maintaining performance when needed. NVIDIA GPUs, such as those in DGX systems, support DVFS through tools like NVIDIA Management Library (NVML) and nvidia-smi, enabling fine-tuned power management. This approach balances efficiency and performance, critical for diverse AI workloads like training (high compute) and inference (variable demand), aligning with NVIDIA's energy-efficient computing initiatives.
Consolidating workloads onto a single GPU (Option A) risks overloading it, degrading performance and negating energy savings due to inefficiency. Scheduling workloads at night (Option C) addresses cost but not total consumption or sustainability, and it may delay time-sensitive tasks. Reducing clock speed universally (Option D) lowers power use but sacrifices performance across all workloads, which is impractical for an AI data center. DVFS is the most effective NVIDIA-supported strategy here.

NEW QUESTION # 40
When virtualizing an infrastructure that includes GPUs to support AI workloads, what is one critical factor to consider to ensure optimal performance?

- A. Assign more storage to each virtual machine
- B. Disable hyper-threading on the host machine
- C. Increase the number of virtual CPUs assigned to each VM
- D. Use GPU sharing technologies, like NVIDIA GRID, to allocate resources dynamically

Answer: D

Explanation:
Using GPU sharing technologies like NVIDIA GRID (A) is a critical factor for optimal performance in a virtualized AI infrastructure. NVIDIA GRID (or its successor, NVIDIA vGPU) enables dynamic allocation of GPU resources across virtual machines (VMs), allowing multiple AI workloads to share a physical GPU efficiently. This ensures high performance by providing each VM with direct GPU acceleration tailored to its needs, while maximizing resource utilization-keyfor AI tasks like training or inference.
* Assigning more storage(B) improves I/O but doesn't directly enhance GPU performance for compute- heavy AI workloads.
* Increasing virtual CPUs(C) boosts CPU capacity, but AI workloads rely primarily on GPU acceleration, not vCPUs.
* Disabling hyper-threading(D) might reduce CPU contention but doesn't address GPU virtualization needs.
NVIDIA's virtualization documentation emphasizes vGPU/GRID for AI performance (A).

NEW QUESTION # 41
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